

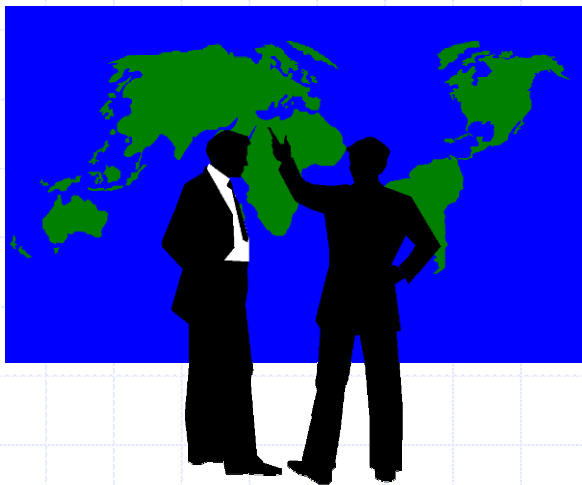


U.S. Department of Energy

OAK RIDGE NATIONAL LABORATORY

# CHP Subcontractors Coordination Review Meeting

*Analysis of Industrial and Commercial  
CHP Markets*



Joel Bluestein  
Energy & Environmental Analysis, Inc.

**April 22, 2004**  
Oak Ridge National Laboratory's  
Washington D.C. Office

# Analysis of Industrial and Commercial CHP Markets

Joel Bluestein

Energy and Environmental Analysis, Inc

1655 N Fort Myer Dr, Suite 600

Arlington, VA 22209

(703) 528-1900

[jbluestein@eea-inc.com](mailto:jbluestein@eea-inc.com)

[www.eea-inc.com](http://www.eea-inc.com)

# Description of Tasks

- Inventory of Existing Commercial/Industrial Boiler Population
- Evolution in the Demand for Steam
- Changing Applications for CHP
- Forecast of New and Conventional Industrial CHP

# Inventory of Boiler Population

**Overview: Develop a current inventory of commercial industrial boilers.**

**Coordination: Work with boiler manufacturers and users.**

**Deliverable: Public report**

**Timeline: Draft in May**

# Revised Boiler Inventory

- § Update/expansion of 1986 study
- § This time including commercial boilers
- § Still no good data sources.
- § Using a combination of survey data and analytical estimates.

# Boiler Inventory - Preliminary Results

- § Overall boiler sales are still slow.
- § Most recent sales are in the very small sizes.
- § There has been some decline in large size boiler inventory.

# Evolution in the Demand For Steam

**Overview:** Analyze and document the changing uses for and demand for steam. Analyze implications for boilers and CHP.

**Coordination:** Work with boiler manufacturers and users.

**Deliverable:** Public report

**Timeline:** Draft report early summer.

# Changing Applications for CHP

**Overview: Identify new and innovative applications and approaches for CHP.**

**Coordination: Work with developers, equipment manufacturers and end users.**

**Deliverable: Public report.**

**Timeline: Draft report under internal review.**



# Changing Applications for Steam

- § Surveys direct process heat applications by industry.
- § Matches potential demand to CHP technologies.
- § There are many potential non-steam applications.

# Forecast of New and Conventional Industrial CHP

**Overview:** Draw on earlier tasks to develop a forecast of industrial CHP through 2025 including conventional and innovative applications and technologies.

**Coordination:** Draw on R&D plans, technology characterizations and industrial growth forecasts.

**Deliverable:** Public report.

**Timeline:** Draft late summer.

# Coordination with Stakeholder Groups and Other Project Teams

§ Using ABMA boiler data.

# FY04-05 Timeline

- § Draft report on new applications - May
- § Draft boiler report - May
- § Draft evolution paper - June
- § Draft forecast report - August

# Questions?